

Amendments To The Claims:

This listing of claims will replace the previously filed claims in the application:

1. (Currently Amended) An isolated nucleic acid molecule encoding a *Renilla reniformis* green fluorescent protein, comprising a ~~sequence of nucleotides~~ nucleotide sequence that encodes the protein of SEQ ID No. ~~NO.~~ 27 or a green fluorescent protein encoded by a nucleic acid molecule of *Renilla reniformis* having at least 80% sequence identity thereto.
2. (Currently Amended) An isolated nucleic acid molecule of claim 1 that encodes a protein having at least 90% sequence identity to the protein of SEQ ID No. ~~NO.~~ 27.
3. (Currently Amended) The isolated nucleic acid molecule of claim 1, comprising a ~~sequence of nucleotides~~ nucleotide sequence selected from the group consisting of:
 - (a) the coding portion of the ~~sequence of nucleotides~~ nucleotide sequence set forth in any of SEQ ID Nos. ~~NOS.~~ 23-25;
 - (b) a ~~sequence of nucleotides~~ nucleotide sequence that hybridizes under high stringency having a percentage mismatch of 0.1 x SSPE, 0.1% SDS at 65° C to the ~~sequence of nucleotides~~ nucleotide sequence of (a); and
 - (c) a ~~sequence of nucleotides~~ nucleotide sequence comprising degenerate codons of (a) or (b).
4. (Original) The isolated nucleic acid molecule of claim 1, wherein the nucleic acid is DNA.
5. (Original) The isolated nucleic acid molecule of claim 1, wherein the nucleic acid is RNA.
6. (Currently Amended) A nucleic acid probe or primer, comprising at least 14 contiguous nucleotides selected from the ~~sequence of nucleotides~~ nucleotide sequence set of claim 1.
7. (Currently Amended) The probe or primer of claim 6, comprising at least 16 contiguous nucleotides selected from the ~~sequence of nucleotides~~ nucleotide sequence in claim 1.
8. (Original) The probe or primer of claim 7, comprising at least 30 contiguous nucleotides.

9. (Currently Amended) A plasmid, comprising the ~~sequence of nucleotides~~ nucleotide sequence of claim 1.

10. (Currently Amended) The plasmid of claim 8 9 that is an expression vector, comprising:

- a promoter element;
- a cloning site for the introduction of nucleic acid; and
- a selectable marker;

wherein the nucleic acid ~~encoding~~ comprising the cloning site is positioned between nucleic acids encoding the promoter element and the green fluorescent protein and wherein the nucleic acid encoding the green fluorescent protein is operatively linked to the promoter element.

11. (Currently Amended) The plasmid of claim 9, further comprising a ~~sequence of nucleotides~~ nucleotide sequence encoding a luciferase.

12. (Original) A recombinant host cell, comprising the plasmid of claim 9.

13. (Original) The cell of claim 12, wherein the cell is selected from the group consisting of a bacterial cell, a yeast cell, a fungal cell, a plant cell, an insect cell and an animal cell.

14. (Withdrawn)

15. (Withdrawn)

16. (Withdrawn)

17. (Withdrawn)

18. (Withdrawn)

19. (Withdrawn)

20. (Withdrawn)

21. (Withdrawn)

22. (Original) A reporter gene construct, comprising the nucleic acid of claim 1.

23. (Withdrawn)

- 24. (Withdrawn)
- 25. (Withdrawn)
- 26. (Withdrawn)
- 27. (Withdrawn)
- 28. (Withdrawn)
- 29. (Withdrawn)
- 30. (Withdrawn)
- 31. (Withdrawn)
- 32. (Withdrawn)
- 33. (Withdrawn)
- 34. (Withdrawn)
- 35. (Withdrawn)
- 36. (Withdrawn)
- 37. (Withdrawn)

38. (Currently Amended) A nucleic acid construct, comprising a nucleotide sequence encoding a luciferase and a ~~sequence of nucleotides~~ nucleotide sequence of claim 1 that encodes a *Renilla reniformis* fluorescent protein (GFP).

39. (Original) The nucleic acid construct of claim 38, wherein the luciferase is a *Renilla mulleri* luciferase, a *Gaussia* luciferase or a *Pleuromamma* luciferase.

40. (Previously Presented) The nucleic acid construct of claim 39, wherein the *Gaussia* luciferase is a *Gaussia princeps* luciferase.

41. (Currently Amended) The nucleic acid construct of claim 38, wherein the luciferase is encoded by:

a ~~sequence of nucleotides~~ nucleotide sequence set forth in SEQ ID Nø: NO. 17, SEQ ID Nø: NO. 19, or SEQ ID Nø: NO. 28;

a ~~sequence of nucleotides~~ nucleotide sequence encoding the amino acid sequence set forth in SEQ ID Nø: NO. 18, SEQ ID Nø: NO. 20 or SEQ ID Nø: NO. 29; and

a ~~sequence of nucleotides~~ nucleotide sequence that hybridizes under high stringency to the ~~sequence of nucleotides~~ nucleotide sequence set forth in SEQ ID No. NO. 17, SEQ ID No. NO. 19 or SEQ ID No. NO. 28.

42. (Original) The nucleic acid construct of claim 38 that is DNA.

43. (Original) The nucleic acid construct of claim 38 that is RNA.

44. (Original) A plasmid, comprising the nucleic acid construct of claim 38.

45. (Currently Amended) The plasmid of claim 44, further comprising a ~~sequence of nucleotides~~ nucleotide sequence encoding:

a promoter element;

a selectable marker;

wherein, the ~~sequence of nucleotides~~ nucleotide sequence encoding the luciferase and GFP is operatively linked to the promoter element, whereby the luciferase and GFP are expressed.

46. (Original) The construct of claim 38, wherein the luciferase and the GFP are encoded by a polycistronic message.

47. (Previously Presented) The construct of claim 38, wherein the encoded luciferase and fluorescent protein comprise a fusion protein.

48. (Original) The construct of claim 38, wherein the luciferase is *Renilla reniformis* luciferase.

49. (Original) A recombinant host cell, comprising the plasmid of claim 44.

50. (Currently Amended) The cell of claim 46~~9~~, wherein the cell is selected from the group consisting of a bacterial cell, a yeast cell, a fungal cell, a plant cell, an insect cell and an animal cell.

51. (Withdrawn)

52. (Withdrawn)

53. (Withdrawn)

54. (Withdrawn)

55. (Withdrawn)

56. (Withdrawn)

57. (Currently Amended) The nucleic acid construct of claim 47, wherein the ~~sequence of nucleotides~~ nucleotide sequence that encoding the luciferase and GFP are not contiguous.

58. (Currently Amended) The nucleic acid construct of claim 57, comprising a ~~sequence of nucleotides~~ nucleotide sequence that encodes a ligand binding domain of a target protein.

59. (Withdrawn)

60. (Withdrawn)

61. (Withdrawn)

62. (Withdrawn)

63. (Withdrawn)

64. (Withdrawn)

65. (Withdrawn)

66. (Withdrawn)

67. (Withdrawn)

68. (Withdrawn)

69. (Withdrawn)

70. (Withdrawn)

71. (Withdrawn)

72. (Withdrawn)

73. (Withdrawn)

74. (Withdrawn)

75. (Withdrawn)

76. (Withdrawn)

77. (Withdrawn)